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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/978,497	10/16/2001	Jung-Hwan Choi,	9898-199 7318		
7590 08/05/2004 MARGER JOHNSON & McCOLLOM, P.C. 1030 S.W. Morrison Street Portland, OR 97205			EXAMINER		
			DUONG, KHANH B		
			ART UNIT	PAPER NUMBER	
			2822		
			DATE MAILED: 08/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)			
		09/97	8,497	CHOI, JUNG-HW	CHOI, JUNG-HWAN		
	Office Action Summary	Exam	iner	Art Unit			
		Khanh	Duong	2822			
Period fo	The MAILING DATE of this commu or Reply	nication appears or	the cover sheet with the	correspondence ad	idress		
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (1) period for reply is specified above, the maximum so the to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In remunication. 30) days, a reply within the tatutory period will apply a y will, by statute, cause the	to event, however, may a reply be e statutory minimum of thirty (30) d nd will expire SIX (6) MONTHS fro e application to become ABANDON	timely filed ays will be considered time m the mailing date of this c IED (35 U.S.C. § 133).	ly. ommunication.		
Status							
1) 又	Responsive to communication(s) fil	ed on <i>08 April 200</i>	4 .				
· —		2b)⊠ This action					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
_	/)☐ Claim(s) is/are objected to.						
Applicat	ion Papers						
9)[The specification is objected to by the	ne Examiner.					
10)□	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)□	Replacement drawing sheet(s) including The oath or declaration is objected to	-		-			
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	documents have documents have of the priority documal Bureau (PCT	been received. been received in Applica uments have been recei Rule 17.2(a)).	ntion No ved in this National	Stage		
Attachmen							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I	PTO-948\	4) Interview Summa Paper No(s)/Mail				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		5) Notice of Informal 6) Other:		O-152)		

DETAILED ACTION

Response to Amendment

This Office Action is in response to the amendment filed April 8, 2004.

Accordingly, claims 2, 4, 8, 9, 26, 27, 29 and 30 were amended, claims 1, 3, 5-7, 10-25, 28 and 31 were canceled, and new claims 32-41 were added.

Currently, claims 2, 4, 8, 9, 26, 27, 29, 30 and 32-41 are pending.

Election/Restrictions

Newly submitted claims 32-41 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: they are drawn to a memory system, classified in class 365, subclass 52.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 32-41 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Response to Arguments

Applicant's arguments with respect to the pending claims have been considered but are most in view of the new ground(s) of rejection based on previously cited references.

Claim Objections

Claims 8, 29 and 30 are objected to because of the following informalities:

Re claims 8 and 29, both at line 2, before "second memory module", "a" should be --the--

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Re claim 30, line 6-8, "first memory module loaded into said socket body in the same direction as said <u>first</u> memory module" (emphasis added) is unclear and should be -- first memory module loaded into said socket body in the same direction as said <u>second</u> memory module--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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Claims 2, 26 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Koyama et al. (US 6,382,983).

Re claims 2, 26 and 27, Koyama et al. ("Koyama") discloses in FIGs. 1-22 a through socket comprising: a socket body (2 and 3) arranged to load first and second memory modules (6 and 23) in the same direction (see FIG. 21) or opposite direction (see FIG. 17); a first conductor 10 arranged to connect a plurality of adjacent contacts 7 on a first surface 13 of the first memory module 6 to a plurality of adjacent contacts 20 on a first surface 13 of the second memory module 23; and a second conductor 11 arranged to connect a plurality of adjacent contacts 8 on a second surface 15 of the first memory module 6 to a plurality of adjacent contacts 21 on a second surface 15 of the second memory module 23.

Claims 8, 9, 29 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Donze et al. (U.S. 3,736,471).

Re claims 8, 9, 29 and 30, Donze et al. ("Donze") discloses in FIGs. 1A-3 a turn around socket comprising: a socket body 16 arranged to load a first and second memory modules 12 in the same direction; a first conductor arranged to connect a plurality of adjacent contacts 30 on a first surface of the first memory module 12 to a plurality of adjacent contacts 30 on a second surface of the first memory module 12 loaded into said socket body 16 in the same direction as said second memory module 12; and a second conductor arranged to connect a plurality of adjacent contacts 30 on a first surface of the second memory module 12 to a plurality of adjacent contacts 30 on a second surface of the second memory module 12. Donze et al. expressly discloses in FIG. 1A the memory module 12 comprising a plurality of adjacent contacts 30 on a first surface of the memory module 12.

Allowable Subject Matter

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Claim 4 is allowed.

The following is a statement of reasons for the indication of allowable subject matter:

none of the prior art of record fairly shows or suggests a through socket comprising: a through
socket body arranged to load a first memory module, a second memory module, and a third
memory module, said first, second and third memory modules being loaded in a base socket
mounted to a board; a first conductor arranged to connect a contact on a first surface of the first
memory module to a contact on a first surface of the second memory module; a second
conductor arranged to connect a contact on a second surface of the second memory module to a
contact on the first surface of the third memory module; and a third conductor arranged to
connect a contact on a second surface of the first memory module to a contact on a second
surface of the third memory module; wherein the through socket is structured to load said
memory modules either above or to the side of said base socket mounted on said board.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Duong whose telephone number is (571) 272-1836. The examiner can normally be reached on Monday - Thursday (9:00 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBD

MARIA F. GUERRERO PRIMARY EXAMINER Page 6